

Request — Jan Delaval.

ACCESS DB # 162261

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Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: Sabirha Darg Examiner #: 74141 Date: 8/11/05  
Art Unit: 1616 Phone Number: 2-0622 Serial Number: 10/517,214  
Location (Bldg/Room#): 4445 (Mailbox #): 4C70 Results Format Preferred (circle): PAPER DISK  
\*\*\*\*\*

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Fungicidal mixtures based on the dithiazine

Inventors (please provide full names): Eberhard Ammermann

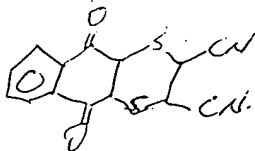
Earliest Priority Date: 7/10/02

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search for a composition containing



(1)

and at least one azole derivative  
selected from 11-2, 11-3, 11-4 & 11-7.

Please see attached sheets

Thank you

STAFF USE ONLY

Searcher: Jan

Searcher Phone #: 2284

Searcher Location: \_\_\_\_\_

Date Searcher Picked Up: 8/15/05

Date Completed: 8/15/05

Searcher Prep & Review Time: 60

Online Time: 1.5

Type of Search

\_\_\_\_ NA Sequence (#)

\_\_\_\_ AA Sequence (#)

☒ Structure (#)

\_\_\_\_ Bibliographic

\_\_\_\_ Litigation

\_\_\_\_ Fulltext

\_\_\_\_ Other

Vendors and cost where applicable

☒ STN \_\_\_\_\_ Dialog

\_\_\_\_ Questel/Orbit \_\_\_\_\_ Lexis/Nexis

\_\_\_\_ Westlaw \_\_\_\_\_ WWW/Internet

\_\_\_\_ In-house sequence systems

\_\_\_\_ Commercial \_\_\_\_\_ Oligomer \_\_\_\_\_ Score/Length

\_\_\_\_ Interference \_\_\_\_\_ SPDI \_\_\_\_\_ Encode/Transl

\_\_\_\_ Other (specify)

=> fil reg

FILE 'REGISTRY' ENTERED AT 15:42:05 ON 15 AUG 2005  
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Property values tagged with IC are from the ZIC/VINITI data file  
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STRUCTURE FILE UPDATES: 14 AUG 2005 HIGHEST RN 860111-75-7  
DICTIONARY FILE UPDATES: 14 AUG 2005 HIGHEST RN 860111-75-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

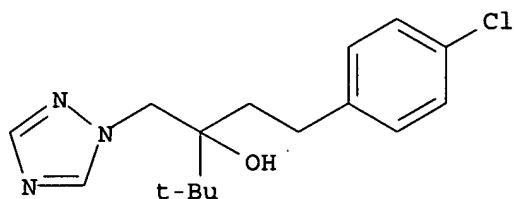
\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS  
for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d l9 ide can tot

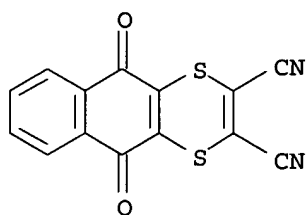
L9 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 644973-44-4 REGISTRY  
ED Entered STN: 02 Feb 2004  
CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-,  
mixt. with  $\alpha$ -[2-(4-chlorophenyl)ethyl]- $\alpha$ -(1,1-dimethylethyl)-  
1H-1,2,4-triazole-1-ethanol (9CI) (CA INDEX NAME)  
MF C16 H22 Cl N3 O . C14 H4 N2 O2 S2  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS  
  
CM 1  
  
CRN 107534-96-3  
CMF C16 H22 Cl N3 O



CM 2

CRN 3347-22-6

CMF C14 H4 N2 O2 S2



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:89293

L9 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN

RN 644973-43-3 REGISTRY

ED Entered STN: 02 Feb 2004

CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-,  
mixt. with 3-(2,4-dichlorophenyl)-6-fluoro-2-(1H-1,2,4-triazol-1-yl)-4(3H)-  
quinazolinone (9CI) (CA INDEX NAME)

MF C16 H8 Cl2 F N5 O . C14 H4 N2 O2 S2

CI MXS

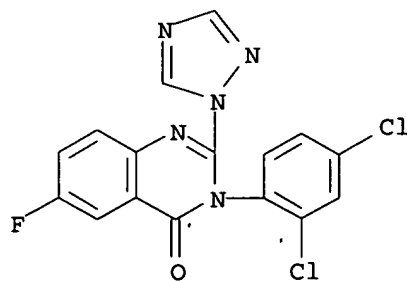
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 136426-54-5

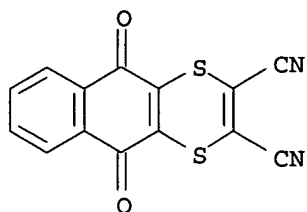
CMF C16 H8 Cl2 F N5 O



CM 2

CRN 3347-22-6

CMF C14 H4 N2 O2 S2



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:89293

L9 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN

RN 644973-42-2 REGISTRY

ED Entered STN: 02 Feb 2004

CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-, mixt. with rel-1-[[[(2R,3S)-3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C17 H13 Cl F N3 O . C14 H4 N2 O2 S2

CI MXS

SR CA

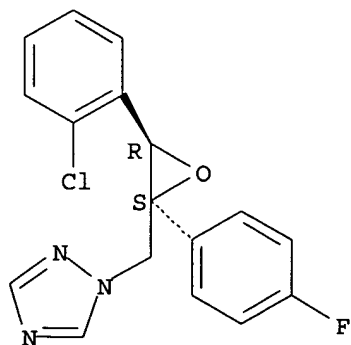
LC STN Files: CA, CAPLUS

CM 1

CRN 133855-98-8

CMF C17 H13 Cl F N3 O

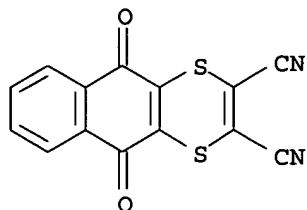
Relative stereochemistry.



CM 2

CRN 3347-22-6

CMF C14 H4 N2 O2 S2



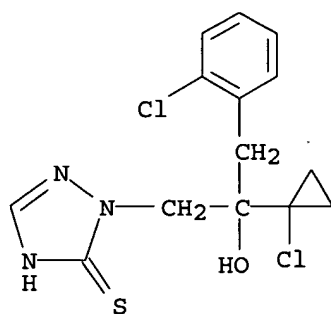
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:89293

L9 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 616235-50-8 REGISTRY  
ED Entered STN: 13 Nov 2003  
CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-,  
mixt. with 2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-2-hydroxypropyl]-  
1,2-dihydro-3H-1,2,4-triazole-3-thione (9CI) (CA INDEX NAME)  
MF C14 H15 Cl2 N3 O S . C14 H4 N2 O2 S2  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

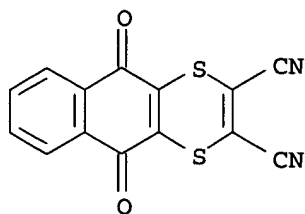
CM 1

CRN 178928-70-6  
CMF C14 H15 Cl2 N3 O S



CM 2

CRN 3347-22-6  
CMF C14 H4 N2 O2 S2



2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:89293

REFERENCE 2: 139:334300

=> d his

(FILE 'HOME' ENTERED AT 15:38:01 ON 15 AUG 2005)  
SET COST OFF

FILE 'REGISTRY' ENTERED AT 15:38:09 ON 15 AUG 2005

L1 1 S DITHIANON/CN  
SEL RN  
L2 45 S E1/CRN  
L3 12 S L2 AND N2CNC/ES  
L4 1 S L3 AND OC2/ES  
L5 1 S L3 AND C6/ES AND C3/ES  
L6 1 S L2 AND NCNC3-C6/ES AND C6/ES  
L7 11 S L3 AND 46.150.18/RID NOT L6  
L8 1 S L7 AND C16H22CLN3O  
L9 4 S L4-L6,L8

FILE 'HCAOLD' ENTERED AT 15:40:56 ON 15 AUG 2005

L10 0 S L9

FILE 'HCAPLUS' ENTERED AT 15:40:58 ON 15 AUG 2005

L11 2 S L9  
L12 2 S L11 AND (AMMERMAN ? OR STIERL ? OR SCHOF ? OR SCHOEFL ? OR  
L13 2 S L11 AND BASF?/PA,CS  
L14 2 S L11-L13

FILE 'USPATFULL' ENTERED AT 15:41:51 ON 15 AUG 2005

L15 1 S L9

FILE 'REGISTRY' ENTERED AT 15:42:05 ON 15 AUG 2005

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 15:42:16 ON 15 AUG 2005  
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FILE COVERS 1907 - 15 Aug 2005 VOL 143 ISS 8  
FILE LAST UPDATED: 14 Aug 2005 (20050814/ED)

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This file contains CAS Registry Numbers for easy and accurate  
substance identification.

=> d l14 all hitstr tot

L14 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2005 ACS on STN  
AN 2004:60217 HCAPLUS  
DN 140:89293  
ED Entered STN: 26 Jan 2004  
TI Synergistic fungicidal mixtures containing dithianon and azole derivatives  
IN Ammermann, Eberhard; Stierl, Reinhard; Schoefl,  
Ulrich; Schelberger, Klaus; Scherer, Maria;  
Henningsen, Michael; Gold, Randall Even  
PA BASF Aktiengesellschaft, Germany  
SO PCT Int. Appl., 17 pp.  
CODEN: PIXXD2  
DT Patent  
LA German  
IC ICM A01N  
CC 5-2 (Agrochemical Bioregulators)  
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004006666	A2	20040122	WO 2003-EP6888	20030630
WO 2004006666	A3	20040701		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2491349	AA	20040122	CA 2003-2491349	20030630
BR 2003012383	A	20050412	BR 2003-12383	20030630
EP 1521527	A2	20050413	EP 2003-763664	20030630
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
PRAI DE 2002-10231295	A	20020710		
WO 2003-EP6888	W	20030630		

#### CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004006666	ICM	A01N
WO 2004006666	ECLA	A01N043/32+M
AB	Fungicidal mixts. contain, in a synergistically effective amount, dithianon	

and  $\geq 1$  one azole derivative selected from among metconazole, epoxiconazole, fluquinconazole, tebuconazole, tetraconazole, difenoconazole, and prothioconazole. Thus, dithianon-metconazole mixture at 4 + 1 ppm synergistically controlled *Alternaria solani* in tomato.

ST synergism fungicide dithianon azol $\acute{e}$  deriv

IT Fungicides

(synergistic; mixts. containing dithianon and azole derivs. as)

IT 616235-50-8 644973-41-1 644973-42-2

644973-43-3 644973-44-4 644973-45-5 644973-46-6

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(as synergistic fungicide)

IT 616235-50-8 644973-42-2 644973-43-3

644973-44-4

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(as synergistic fungicide)

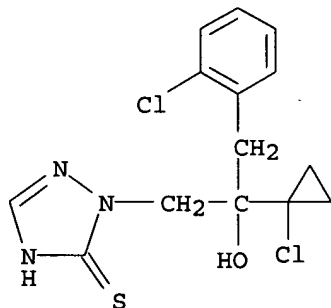
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CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-, mixt. with 2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-2-hydroxypropyl]-1,2-dihydro-3H-1,2,4-triazole-3-thione (9CI) (CA INDEX NAME)

CM 1

CRN 178928-70-6

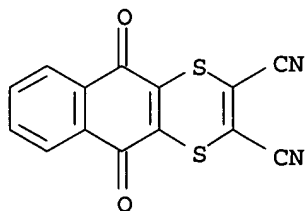
CMF C14 H15 Cl2 N3 O S



CM 2

CRN 3347-22-6

CMF C14 H4 N2 O2 S2



RN 644973-42-2 HCAPLUS

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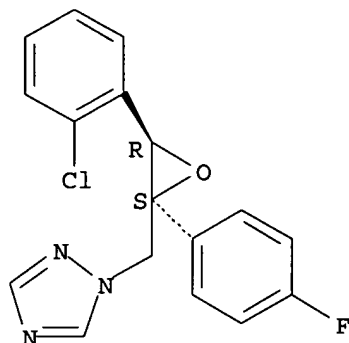
mixt. with rel-1-[[ (2R,3S)-3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiranyl)methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CRN 133855-98-8

CMF C17 H13 Cl F N3 O

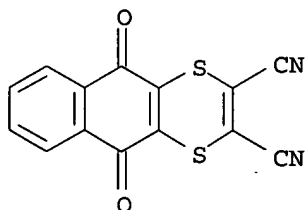
Relative stereochemistry.



CM 2

CRN 3347-22-6

CMF C14 H4 N2 O2 S2



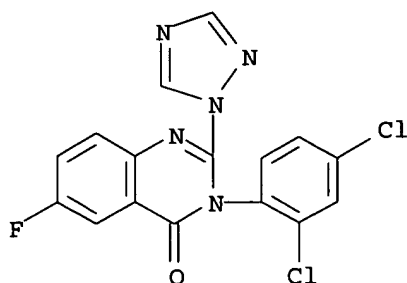
RN 644973-43-3 HCAPLUS

CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-, mixt. with 3-(2,4-dichlorophenyl)-6-fluoro-2-(1H-1,2,4-triazol-1-yl)-4(3H)-quinazolinone (9CI) (CA INDEX NAME)

CM 1

CRN 136426-54-5

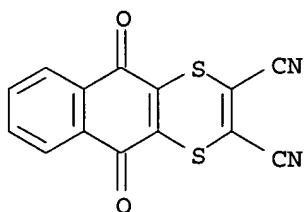
CMF C16 H8 Cl2 F N5 O



CM 2

CRN 3347-22-6

CMF C14 H4 N2 O2 S2



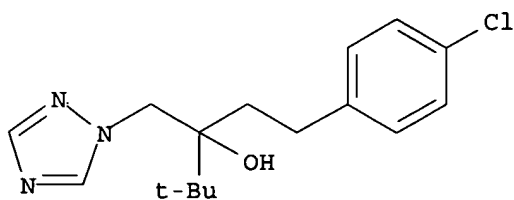
RN 644973-44-4 HCAPLUS

CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-,  
mixt. with  $\alpha$ -[2-(4-chlorophenyl)ethyl]- $\alpha$ -(1,1-dimethylethyl)-  
1H-1,2,4-triazole-1-ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 107534-96-3

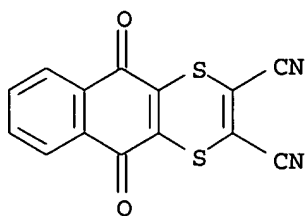
CMF C16 H22 Cl N3 O



CM 2

CRN 3347-22-6

CMF C14 H4 N2 O2 S2



L14 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2003:875033 HCAPLUS  
 DN 139:334300  
 ED Entered STN: 07 Nov 2003  
 TI Synergistic fungicidal mixtures comprising prothioconazole  
 IN **Ammermann, Eberhard; Stierl, Reinhard; Lorenz, Gisela;  
 Schoefl, Ulrich; Strathmann, Siegfried; Schelberger, Klaus**  
 ; Christen, Thomas  
 PA **Basf Aktiengesellschaft, Germany**  
 SO PCT Int. Appl., 48 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 IC ICM A01N043-653  
 ICS A01N047-34; A01N047-26; A01N047-18; A01N043-78; A01N043-50;  
 A01N043-42; A01N043-40; A01N043-36; A01N043-32; A01N037-52;  
 A01N037-46; A01N037-38; A01N035-06; A01N035-04; A01N033-18

CC 5-2 (Agrochemical Bioregulators)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003090538	A1	20031106	WO 2003-EP2845	20030319
	WO 2003090538	C1	20041028		
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	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,				
	PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT,				
	TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,				
	KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,				
	FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,				
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	EP 1489906	A1	20041229	EP 2003-712051	20030319
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
	IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	BR 2003008443	A	20050118	BR 2003-8443	20030319
	US 2005148639	A1	20050707	US 2003-508208	20030319
PRAI	DE 2002-10212704	A	20020321		
	WO 2003-EP2845	W	20030319		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2003090538	ICM	A01N043-653
	ICS	A01N047-34; A01N047-26; A01N047-18; A01N043-78; A01N043-50; A01N043-42; A01N043-40; A01N043-36; A01N043-32; A01N037-52; A01N037-46; A01N037-38;

WO 2003090538 ECLA A01N035-06; A01N035-04; A01N033-18  
 US 2005148639 NCL A01N043/653+M  
 514/355.000; 514/394.000; 514/433.000; 514/312.000;  
 514/436.000; 514/479.000; 514/315.000; 514/398.000;  
 514/384.000; 514/367.000

AB The invention relates to a fungicidal mixture that comprises prothioconazole or its salts or adducts and at least one further fungicidal composition, selected from compds. such as boscalid, carboxine, metrafenone, quinoxifen, dithianon, thiram, mepiquat chloride, cyazofamid, fenoxanil, thiophanate Me, carbendazim, metalaxyl, fludioxonil, thiabendazole, quintozone, prochloraz or anthraquinone, in a synergistically effective amount

ST synergism fungicide prothioconazole mixt  
 IT Fungicides  
 (synergistic; mixts. comprising prothioconazole)

IT 215246-03-0 319920-19-9 345205-96-1 616235-45-1 616235-46-2,  
 Prothioconazole-carboxin mixture 616235-47-3 616235-48-4 616235-49-5  
 616235-50-8 616235-51-9 616235-52-0 616235-53-1  
 616235-54-2 616235-55-3 616235-56-4 616235-57-5 616235-58-6  
 616235-59-7 616235-60-0 616235-61-1  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal composition)

IT 178928-70-6D, Prothioconazole, mixts. containing  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal compns.)

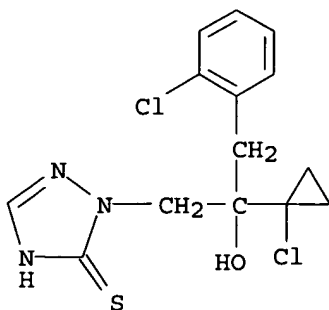
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 RE  
 (1) Astrid, M; WO 9847370 A 1998 HCAPLUS  
 (2) Stenzel, K; WO 9847367 A 1998 HCAPLUS  
 (3) Wieland, K; WO 0180641 A 2001

IT 616235-50-8  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal composition)

RN 616235-50-8 HCAPLUS  
 CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-,  
 mixt. with 2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-2-hydroxypropyl]-  
 1,2-dihydro-3H-1,2,4-triazole-3-thione (9CI) (CA INDEX NAME)

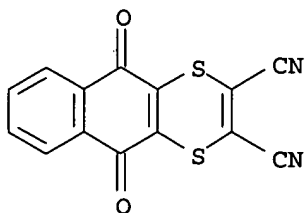
CM 1

CRN 178928-70-6  
 CMF C14 H15 Cl2 N3 O S



CM 2

CRN 3347-22-6  
CMF C14 H4 N2 O2 S2



=> fil uspatful

FILE 'USPATFULL' ENTERED AT 15:42:38 ON 15 AUG 2005  
CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 11 Aug 2005 (20050811/PD)  
FILE LAST UPDATED: 11 Aug 2005 (20050811/ED)  
HIGHEST GRANTED PATENT NUMBER: US6928656  
HIGHEST APPLICATION PUBLICATION NUMBER: US2005177917  
CA INDEXING IS CURRENT THROUGH 11 Aug 2005 (20050811/UPCA)  
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 11 Aug 2005 (20050811/PD)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2005  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2005

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>>> USPAT2 is now available.  USPATFULL contains full text of the  <<<
>>> original, i.e., the earliest published granted patents or      <<<
>>> applications.  USPAT2 contains full text of the latest US      <<<
>>> publications, starting in 2001, for the inventions covered in   <<<
>>> USPATFULL.  A USPATFULL record contains not only the original  <<<
>>> published document but also a list of any subsequent           <<<
>>> publications.  The publication number, patent kind code, and   <<<
>>> publication date for all the US publications for an invention  <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc.                                                       <<<
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>>> through the new cluster USPATALL.  Type FILE USPATALL to       <<<
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>>> classifications, or claims, that may potentially change from   <<<
>>> the earliest to the latest publication.                         <<<
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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d bib abs hitstr l15

L15 ANSWER 1 OF 1 USPATFULL on STN  
AN 2005:171890 USPATFULL  
TI Fungicidal mixtures  
IN Ammermann, Eberhard, Heppenheim, GERMANY, FEDERAL REPUBLIC OF  
Stierl, Reinhard, Mutterstadt, GERMANY, FEDERAL REPUBLIC OF  
Lorenz, Gisela, Neustadt, GERMANY, FEDERAL REPUBLIC OF

Schofl, Ulrich, Bruhl, GERMANY, FEDERAL REPUBLIC OF  
 Strathmann, Siegfried, Limburgerhof, GERMANY, FEDERAL REPUBLIC OF  
 Schelberger, Klaus, Gonnheim, GERMANY, FEDERAL REPUBLIC OF  
 Christen, Thomas, Dannstadt-Schauernheim, GERMANY, FEDERAL REPUBLIC OF  
 PA BASF AKTIENGESELLSCHAFT, 67056 Ludwigshafen, GERMANY, FEDERAL REPUBLIC  
 OF (non-U.S. corporation)  
 PI US 2005148639 A1 20050707  
 AI US 2003-508208 A1 20030319 (10)  
 WO 2003-EP2845 20030319  
 PRAI DE 2003-10212704 20020321  
 DT Utility  
 FS APPLICATION  
 LREP ROTHWELL, FIGG, ERNST & MANBECK, P.C., 1425 K STREET, N.W., SUITE 800,  
 WASHINGTON, DC, 20005, US  
 CLMN Number of Claims: 11  
 ECL Exemplary Claim: 1  
 DRWN No Drawings  
 LN.CNT 661

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to a fungicidal mixture that comprises (1)  
 2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-2-hydroxypropyl]-2,4-  
 dihydro-[1,2,4]-triazolo-3-thion (prothioconazole) or the salts or  
 adducts thereof and at least one further fungicidal composition,  
 selected from (2) boscalid or (3) carboxine or (4) metrafenone or (5) a  
 compound of formula (V) or (6) a compound of formula (VI) or (7)  
 quinoxifen or (8) dithianon or (9) thiram or (10) mepiquat chlorides or  
 (11) cyazofamid or (12) fenoxanil or (13) a compound of formula (XIII)  
 or (14) thiophanate methyl or (15) carbendazim or (16) metalaxyl or (17)  
 fludioxonil or (18) thiabendazole or (19) quintozone or (20) prochloraz  
 or (21) anthraquinone in a synergistically effective amount. ##STR1##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 616235-50-8

(synergistic fungicidal composition)

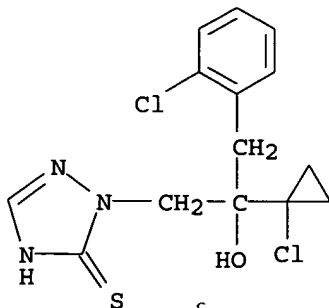
RN 616235-50-8 USPATFULL

CN Naphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile, 5,10-dihydro-5,10-dioxo-,  
 mixt. with 2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-2-  
 hydroxypropyl]-1,2-dihydro-3H-1,2,4-triazole-3-thione (9CI) (CA INDEX  
 NAME)

CM 1

CRN 178928-70-6

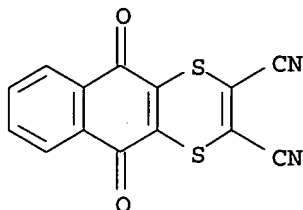
CMF C14 H15 Cl2 N3 O S



CM 2

CRN 3347-22-6

CMF C14 H4 N2 O2 S2



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L4 1 S L3 AND OC2/ES  
L5 1 S L3 AND C6/ES AND C3/ES  
L6 1 S L2 AND NCNC3-C6/ES AND C6/ES  
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L8 1 S L7 AND C16H22CLN3O  
L9 4 S L4-L6,L8

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L13 2 S L11 AND BASF?/PA,CS  
L14 2 S L11-L13

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L15 1 S L9

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